



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C11D 3/00, 3/37	A1	(11) International Publication Number: WO 00/56849 (43) International Publication Date: 28 September 2000 (28.09.00)
(21) International Application Number: PCT/US00/08031 (22) International Filing Date: 24 March 2000 (24.03.00) (30) Priority Data: 60/126,072 25 March 1999 (25.03.99) US (71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): <u>PANANDIKER</u> , Rajan, Keshav [US/US]; 6484 Oregon Pass, West Chester, OH 45069 (US). <u>RANDALL</u> , Sherri, Lynn [US/US]; 5836 Mindy Drive, Hamilton, OH 45011 (US). <u>LITTIG</u> , Janet, Sue [US/US]; 159 Hidden Hills Drive, Fairfield, OH 45014 (US). <u>GOSELINK</u> , Eugene, Paul [US/US]; 3754 Susanna Drive, Cincinnati, OH 45251 (US). <u>BJORKQUIST</u> , David, William [US/US]; 36 Oliver Road, Wyoming, OH 45215 (US). (74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).		(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: LAUNDRY DETERGENT COMPOSITIONS WITH CERTAIN CATIONICALLY CHARGED DYE MAINTENANCE POLYMERS		
(57) Abstract <p>The present invention relates to laundry detergent compositions providing dye protection benefits to fabric comprising: a) from about 4% to about 70 % by weight, of a surfactant; b) from about 0.01 % by weight, of a dye maintenance polymer or oligomer, said polymer or copolymer comprising one or more linearly polymerizing monomers, cyclically polymerizing monomers, and mixtures thereof; and c) the balance carriers and adjunct ingredients.</p>		